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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4918	
09/691,429	10/18/2000	Joseph Tyler	1932.2005-002		
75	590 01/02/2002				
Carolyn S. Elmore			EXAMINER		
HAMILTON, E Two Militia Dr	BROOK, SMITH & REYI ive	DEWITTY, ROBERT M			
Lexington, MA 02421-4799			ART UNIT	PAPER NUMBER	
			1616	0	
			DATE MAILED: 01/02/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>	Application	on No.	Applicant(s)		
			09/691,42	29	TYLER ET AL.		
	Offic	Offic Action Summary			Art Unit		
	•		Robert M	DeWitty	1616		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
	1)⊠ Responsive to communication(s) filed on <u>05 October 2001</u> .						
2a)[is action is non-final.			
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)[∑	6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
7)[7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applica	ation Papers	3					
	_ '	cation is objected to by the E					
10)		g(s) filed on is/are: a)[-			
44)		may not request that any objecti					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.							
Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage.							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
2) 🔲 No	tice of Draftspe	ces Cited (PTO-892) rson's Patent Drawing Review (PTO- sure Statement(s) (PTO-1449) Pape			ry (PTO-413) Paper No(s) I Patent Application (PTO-152)		

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DETAILED ACTION

Claims 1-21 are pending in the instant application. Acknowledgement is made of Applicant's IDS and Supplemental IDS filed 8/20/01 and 10/5/01, respectively.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, it is unclear how the alkyl substituents are further limited.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-8, 12, and 19-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Holmes-Farley, et al. (U.S. Pat. No. 5,496,545).

Holmes-Farley release to phosphate-binding polymers orally administered for the treatment of hyperphosphatemia. The administration involves using an effective amount of a composition containing a phosphate-binding polymer, which may be Application/Control Number: 09/691,429

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crosslinked with an agent such as epichlorohydrin (col. 1, line 65-col. 2, line 5). In one example, 1 to 100 parts of epichlorohydrin is added to a solution of 100 parts of polyethyleneimine (col. 5, line 9-13). Suitable polymers include poly(allymine),

polyethyleneimine, poly(vinylamine), and others (col. 5, line 45-col. 6, line 6).

The pharmaceutical compositions prepared in connection with the invention of Holmes-Farley may be made with the polymer admixed with a carrier, or enclosed within a carrier in the form of a capsule. Thus, the compositions can take the form of tablets or capsules Examples of suitable carriers include cellulose, and methyl cellulose (col. 17, lines 20-45).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holmes-Farley et al. further in view of Renagel (as evidence by the instant specification on page 3, and the Physician's Desk Reference).

As stated above, Holmes-Farley teaches composition containing phosphatebinding polymers crosslinked with epichlorohydrin, that can be admixed with a carrier.

As stated in the instant application, Renagel has been shown to be effective at removing phosphate from human patients suffering from renal failure (page 5). Further

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information on Renagel (obtained from the Physician's Desk Reference), shows that the

drug is film-coated. The tableted forms of Renagel contain hydroxypropyl

methylcellulose.

MOTIVATION

The art suggests to one with ordinary skill in the art to use the tableted forms of

Renagel, containing hydroxypropyl methylcellulose, for administering the

pharmaceutical compositions of Holmes-Farley because of the success obtained from

Renagel, namely the effective removal of phosphate from human patients suffering from

renal failure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert M DeWitty whose telephone number is 703-308-

2411. The examiner can normally be reached on 9:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jose Dees can be reached on 703-308-4527. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7924 for

regular communications and 703-308-7924 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

1235.

RMD

December 27, 2001

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SABIHA QAZI, PH.D PRIMARY EXAMINER